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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/937,460	12/28/2001	Pieter Tjerk Koopman	3135-011614 9480		
	7590 03/23/200 AW FIRM, P.C.	EXAMINER			
700 KOPPERS	BUILDING	AN, SHAWN S			
436 SEVENTH AVENUE PITTSBURGH, PA 15219			ART UNIT	PAPER NUMBER	
			2621		
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			03/23/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application	n No.	Applicant(s)		
	09/937,46	60	KOOPMAN, PIETER TJERK		
Office Action Summary	Examiner		Art Unit		
	SHAWN A	.N	2621		
The MAILING DATE of this come Period for Reply	nunication appears on the	cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIO WHICHEVER IS LONGER, FROM TH  - Extensions of time may be available under the proving after SIX (6) MONTHS from the mailing date of this  - If NO period for reply is specified above, the maximum  - Failure to reply within the set or extended period for Any reply received by the Office later than three more amed patent term adjustment. See 37 CFR 1.704	E MAILING DATE OF THe sions of 37 CFR 1.136(a). In no ever communication. In statutory period will apply and wireply will, by statute, cause the appoints after the mailing date of this co	IIS COMMUNICATION ent, however, may a reply be tim II expire SIX (6) MONTHS from lication to become ABANDONEI	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).		
Status					
<ul> <li>1) ☐ Responsive to communication(s</li> <li>2a) ☐ This action is FINAL.</li> <li>3) ☐ Since this application is in condiction closed in accordance with the present the condiction is in condiction.</li> </ul>	2b) This action is n ion for allowance except	on-final. for formal matters, pro			
Disposition of Claims					
4)	is/are withdrawn from co <u>0 and 42</u> is/are rejected.	nsideration.			
··· <u> </u>					
9) The specification is objected to b  10) The drawing(s) filed on is/  Applicant may not request that any  Replacement drawing sheet(s) inclu  11) The oath or declaration is objected	are: a)  accepted or b) bijection to the drawing(s) beding the correction is require	e held in abeyance. See ed if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review  3) Information Disclosure Statement(s) (PTO/SB Paper No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te		

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#### **DETAILED ACTION**

## Response to Amendment

**1.** As per Applicant's instruction as filed on 2/27/09, claims 22 and 36 have been amended, and claims 1-21, 23, 25, 27, 29-31, 35, 37-39, and 41 have been canceled.

## Response to Remarks

2. As per Applicant's discussion with regard to improper Finality of the Office action as filed on 2/27/09, in order to extend customer courtesy and to further expedite prosecution of this application, the Examiner affirms entering of the amendment presented on 2/27/09, and notes that the last final Office action as filed on 10/30/08 will be treated as a non-final Office action.

Furthermore, Applicant's arguments regarding the recitation "In a device for selecting and recording an image of ...," and the recitation "A method for selecting an image to be recorded with a camera ...," have not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951).

Moreover, Applicant's arguments with respect to amended claims limitations have been carefully considered but are moot in view of the new ground(s) of rejection incorporating previously cited prior art references.

# Claim Rejections - 35 USC § 103

- **3.** The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented

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and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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**4.** Claims 22, 24, 26, 28, 32-34, 36, 40, and 42 rejected under 35 U.S.C. 103(a) as being unpatentable over Fujiyama et al (5,190,632) in view of Liu et al (5,998,796).

**Regarding claims 22, 24, and 36**, Fujiyama et al discloses a device/method for selecting and recording (col. 22, lines 1-13 and lines 51-67) an image of an irradiated or emissive object comprising complexes of <u>DNA</u>, RNA, or protein, the improvement comprising:

an immovable (mounted to the electrophoresis unit; Fig. 1, 1) object holder (Figs. 1-2, 5) for positioning/placing the object (a sample of DNA fragments; the gel member) in a stationary position (col. 9, lines 13-48);

at least one mirror (Figs. 2 and 4, 22) is rotatable around a single rotation axis for purpose of reflecting a chosen part of the image of the object to a viewing area;

a camera (Fig. 2, 24);

a (second) drive means (Fig. 2, 30) for rotating the at least one mirror (22) about the rotation axis (which is perpendicular to an optical axis of the camera), thereby displacing the at least one mirror for selecting a part of the image from the reflected image of the object while holding the object in the stationary position (col. 12, lines 34-68; col. 13, lines 1-15).

Fujiyama et al does not particularly disclose <u>a first drive means for displacing the camera substantially parallel to a rotation axis of the at least one mirror, wherein the camera is displaceable in a viewing area in which the image of the object is reflected by the at least one mirror that lies on the optical axis of the camera.</u>

Fujiyama et al also does not particularly disclose the drive means for rotating the at least one mirror about the rotation axis, which is perpendicular to an optical axis of the camera.

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However, it is conventionally well known in the image processing art for a camera to rotate in a desired angle for an effective way of taking/capturing/sensing an image.

Furthermore, Liu et al teaches a detector system for performing sample analysis such as DNA sequencing/fingerprinting (col. 1, lines 9-16) comprising an example of camera displacement/rotation for correcting such as any skew among the received pixels in the sensed image, wherein the camera is displaceable/rotatable in a viewing area (Fig. 3b; col. 4, lines 22-49).

Moreover, a drive means for displacing the camera is considered an inherent feature, because the camera can't displace/rotate/move by itself.

Therefore, it would have been considered contentiously obvious to a person of ordinary skill in the art employing a device/method for selecting and recording an image of an irradiated or emissive object as taught by Fujiyama et al to incorporate/combine the concept of camera displacement/rotation as taught by Liu et al so that a first drive means displaces the camera substantially parallel to a rotation axis of Fujiyama et al's at least one mirror, wherein the camera is displaceable/rotatable in a viewing area in which the image of the object is reflected by Fujiyama et al's at least one mirror that lies on the optical axis of the camera, wherein the (second) drive means rotates the at least one mirror about the rotation axis, which is perpendicular to an optical axis of Liu et al's camera in order to correct such as any skew among the received pixels in the sensed image, thereby effectively taking/capturing/sensing an image.

**Regarding claims 26 and 40**, Fujiyama et al discloses a radiation source (Fig. 2, 21) for irradiating the object positioned by the object holder (5).

Regarding claims 28 and 42, Fujiyama et al discloses the radiation source (Fig. 2, 21) being disposed on the side of the object remote from the at least one mirror (22).

**Regarding claim 32**, Fujiyama et al discloses the device being provided with an at least sealed housing (Fig. 1).

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Furthermore, the Examiner takes official notice that a housing such as used in Fujiyama et al's device, or the substantially the similar electrical device usually is completely sealed (radiation sealed as well) for the purpose of protection and prevention so at least the external irradiation by a radiation source does not interfere with the internal radiation source in the device.

Therefore, it would have been considered obvious to a person of skill in the art to recognize that Fujiyama et al's device being provided with an at least <u>substantially</u> <u>radiation</u> sealed housing for the purpose of protection and prevention so at least the external irradiation by a radiation source does not interfere with the internal radiation source in the device.

**Regarding claim 33**, Fujiyama et al discloses the rotatable mirror having an elongated form (22).

Regarding claim 34, it is considered an obvious feature to make Fujiyama et al's at least one rotatable mirror, rotatable axis, and a drive means for rotation of the mirror to be integral with the camera, so that the selected part of the image from the reflected image of the object is totally aligned with the rotatable mirror, rotatable axis, and the light received by the light collector (23)(via rotatable mirror, rotatable axis, and the object) is converted into electric signals by the camera, thereby providing a smooth operation by having the at least one rotatable mirror, rotatable axis, and a drive means for rotation of the mirror to be integral with the camera.

#### Conclusion

5. Applicant's current amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then

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the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

- **6.** Any inquiry concerning this communication or earlier communications from the Examiner should be directed to *Shawn An* whose telephone number is 571-272-7324.
- 7. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300
- 8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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